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Camazoa Copy Approvou A	Desema	andyni - printo How -	
	-Test par	meters set uply contractor. NPIC/TDC/A-15-65	
	Budd	Concurrently	
TEC	HNICAL DEVELOPMENT COMMITTEE	saperwark required.	
	AGENDA		

Time: 1030, 31 March 1965

Place: 4N 412

1. Announcements

- a. Approval of Minutes.
- b. New Proposals: Ten new proposals, listed below, have been received since the last meeting. If you have any interest in reading these proposals they are available in the Plans and Development Staff.

110-65	Design and Fabricate Engineering Prototype Model of Anamorphic Zoom Eve Piece and 100	0EV4
	Additional Units,	25X1
111/65	Image Intensifier Screen,	25 X 1
		25X1
112/65	Prototype Step & Repeat Contact Printer &	25 X 1
	Processor for 3M Diapositive Film,	25X1
	R&D Program Involving Image-Intensifying	
113/65	Devices,	25 X 1
114/65	Development of an Automatic Target Recognition	25 X 1
	System,	23/1
115/65	Technical Proposal for a Motorized Film Rewind	25 X 1
	Mechanism,	20/(1
116/65	Proposal to Fabricate Anamorphic Zoom Eye Pieces,	25X1
	The growth in	
117/65	Study Program for the Improvement of Imagery in Rear Projection Viewers,	25X1
		25 X 1

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770/65	Proposal for the Design and Fabrication of a	25X1
118/65	Motorized Film Rewind Unit,	
	MOTOT EBOX 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25X1
		25X1
119/65	Proposal for a Modulated Light Viewing System,	23/1
>, .	Phase II,	25X1
c. Announceme	ent on Contract Chip Processor,	25X1 25 X 1
		25X1
As the res	visit to the contractor's plant	
-/	occ a contract extension of approximately one month	
minor changes sugge	ested by the monitor: (1) expand film magazine from	
16-mount capacity t	so that the film is dropped rapidly into the develop-	
The time excension	which may be requested is unknown, but is estimated to	
be approximately \$1	1.000 to \$1,500.	
be approximated +-		
2. New Business		
		25X1
a. Non Revers	sible Recording Feasibility Study Continuation, . (PSD, PD, CSD, PAG, PID, TID, IPD)	
	. (FSD, 1D, ODD, 111d, 122)	25X1
	Tape Recorder, (OD, PAG, PID, TID)	20/(1
b. Magnetic:	Tape Necorder,	25X1
c. Data Block	k Reader.	25X1
(I	PD, TID, PAG, PID, CSD)	
	/man \	25X1
d. Electro-C	olor Printer Processor, (PSD)	
		25X1
e. Reports of	n Research in Vision and Related Areas,	25X1
(PA	G, PID, TID)	23/1
	() and a	
3. Proposal Evalu		
mb - e-llas-isa	g proposal has been evaluated as of no interest at the	
	, proposar imp voor	
present time.		25X1
120/65	Semi-Automatic Film Encoder,	23/1
<u> </u>	(Rejected because it is not appropriate to	
	the development of the Step & Repeat Printer.)	

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Distribution:

- 1 Chairman, TDC
- 1 Exec. Dir.
- 1 Asst. for Admin.
- 1 Chief, SS
- 1 Chief, MSS
- 1 SS/Security Br.
- 1 SS/Logistics Br.
- 1 MSS/BFAB
- 1 Asst. for OPS
- 1 Dep. Asst. for PA
- 1 Chief, CSD
- 3 Chief, PD 1 Chief, PSD
- 1 Chief, TID
- 1 Chief, IPD
- l Chief, CIA/PID
- 1 Chief. SPAD
- 1 -

1 -

25X1

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R & D	CATALOG FORM	26 March 1965
1. PROJECT TITLE/CODE NAME Data Block Reader	Data Block Reader for reinformation recorded on pl	eading and decoding binary hotographic roll film.
		25
5. CLASS OF CONTRACTOR	6. TYPE OF CONTRACT	
Manufacturer	Fixed Price	
7. FUNDS	8. REQUISITION NO.	9. BUDGET PROJECT NO.
FY 19 \$	NA.	NP-I-1
	10. EFFECTIVE CONTRACT DATE (Begin - end)	25X
	June 1965 - May 1966	
2. RESPONSIBLE DIRECTORATE/OFFIC	E/PROJECT OFFICER TELEPHONE EXTENSION	
DDI/NPIC/	·	25X1
film prior to processing 4. TYPE OF WORK TO BE DONE		
Engineering Developme	nt	
5. CATEGORIES OF EFFORT		CATECORIES
5. CATEGORIES OF EFFORT MAJOR CATEGORY	SUB	- CATEGORIES
5. CATEGORIES OF EFFORT	SUB	val
MAJOR CATEGORIES OF EFFORT MAJOR CATEGORY Information Storage & Re Equipment	trieval Information Retrie Electro-optical-me	val chanical
5. CATEGORIES OF EFFORT MAJOR CATEGORY Information Storage & Re Equipment 6. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap	Trieval Trieval Trieval Trieval Trieval Electro-optical-me S CONTRACT/IMPROVEMENT OVER CURRENT SYSTI nary reader, decoder, and assoc ability is limited to one binar CTS (Agency & Other)/COORDINATION	val chanical EM. EQUIPMENT. ETC. iated readout equipment. ry configuration only.
5. CATEGORIES OF EFFORT MAJOR CATEGORY Information Storage & Re Equipment 6. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap 7. SUPPORTING OR RELATED CONTRAC There are no supporti with AMS. This project significance to PAG AND	trieval Information Retrie Electro-optical-me s contract/improvement over current systemary reader, decoder, and associability is limited to one binar or s (Agency & Other)/COORDINATION and or related contracts; coordinate been discussed with IPD and PID.	enanical EM. EQUIPMENT. ETC. iated readout equipment. ry configuration only. nation has been accomplished TID. It is of indirect
5. CATEGORIES OF EFFORT MAJOR CATEGORY Information Storage & Re Equipment 6. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap 7. SUPPORTING OR RELATED CONTRACT There are no supporti with AMS. This project significance to PAG AND 18. DESCRIPTION OF INTELLIGENCE Re tional page if required)	trieval Information Retrie Electro-optical-me s contract/improvement over current systemary reader, decoder, and associability is limited to one binar or s (Agency & Other)/coordination and or related contracts; coordinate been discussed with IPD and PID. REQUIREMENT AND DETAILED TECHNICAL DESCRIP	em. EQUIPMENT. ETC. iated readout equipment. ry configuration only. nation has been accomplished TID. It is of indirect
Is. categories of effort MAJOR CATEGORY Information Storage & Re Equipment 16. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap 17. SUPPORTING OR RELATED CONTRAC There are no supporti with AMS. This project significance to PAG AND 18. DESCRIPTION OF INTELLIGENCE of tional page if required) The requirement for a data recorded in digital has been anticipated by surveyed to ascertain the existing readers. Only	trieval Information Retrie Electro-optical-me s contract/improvement over current systemary reader, decoder, and associability is limited to one binar or s (Agency & Other)/COORDINATION and or related contracts; coordinate been discussed with IPD and PID.	em. EQUIPMENT. ETC. isted readout equipment. ry configuration only. nation has been accomplished TID. It is of indirect PTION OF PROJECT (Continue on addi- rapid readout of auxiliary each photographic frame ingly, industry has been elf items" or modifying such an instrument; however,
Information Storage & Re Equipment 6. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap 17. SUPPORTING OR RELATED CONTRACT There are no supportivith AMS. This project significance to PAG AND 18. DESCRIPTION OF INTELLIGENCE of tional page if required) The requirement for a data recorded in digital has been anticipated by surveyed to ascertain the existing readers. Only it is of a fixed format varying matrices.	Trieval Trieval Trieval Trieval Trieval Electro-optical-me S CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM nary reader, decoder, and assoce ability is limited to one binary Trieval Trieval	em. EQUIPMENT. ETC. iated readout equipment. ry configuration only. nation has been accomplished TID. It is of indirect PTION OF PROJECT (Continue on addi- rapid readout of auxiliary each photographic frame ingly, industry has been elf items" or modifying such an instrument; however, redesign for handling
Is. CATEGORIES OF EFFORT MAJOR CATEGORY Information Storage & Re Equipment 16. END ITEM OR SERVICES FROM THE One each prototype bi The current in-house cap 17. SUPPORTING OR RELATED CONTRACT There are no supportivith AMS. This project significance to PAG AND 18. DESCRIPTION OF INTELLIGENCE of tional page if required) The requirement for a data recorded in digital has been anticipated by surveyed to ascertain the existing readers. Only it is of a fixed format varying matrices. 19. APPROVED BY AND DATE	Trieval Trieval Trieval Trieval Trieval Electro-optical-me S CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM nary reader, decoder, and assoce ability is limited to one binary Trieval Trieval	em. EQUIPMENT. ETC. iated readout equipment. y configuration only. nation has been accomplished TID. It is of indirect PTION OF PROJECT (Continue on addi- rapid readout of auxiliary each photographic frame ingly, industry has been elf items" or modifying such an instrument; however, redesign for handling (Contd)

R & D CATALOG FORM (Continued)

18. Alternatively, manufacturers were solicted for proposals meeting our requirements. The proposal submitted by FSDS meets the parameters set forth to develop a data block reader designed for maximum flexibility.

The proposed design incorporates a linear array of photo-diodes which combine the functions of spot location and photo sensitivity. This is a considerable simplification over the flying spot scanner implementation since high voltage accelerating anodes and highly stable sweep voltages are not required.

The device to be used is a single monolithic silicon crystal structure. The spacing of the diodes is extremely accurate, so that the output of each diode in the linear array is presented in the exact pattern of light and dark spots passing over the linear axis. Each diode is individually wired and the signal pre-amplified. By this means the diode array scans and readswout the data block as it passes under the sensory matrix.

The reader will automatically locate the data block, read the data and record it on magnetic tape or punched cards in the IBM format. The reader will be capable of reading four types of data blocks to be specified by the customer. Accommodation of dot size and density variations will be in accordance with MIL-Std 782-A "Tactical Reconnaissance Data Marking". All film sizes from 35mm through $9\frac{1}{2}$ inches in rolls holding up to 1000 feet will be accepted. The film transport will carry the film at a constant velocity of 60 feet per minute. The operator will determine which type of data block is to be read and connect the proper head by a selector switch. After loading the film the read head is aligned by two magnified hairlines and oriented in the same direction as the data block. After the read button is pressed, all the subsequent operations are automatic. The configurations which can be handled by this reader will meet the requirements for readout of two different SI packages as well as the standard DOD data block.

Appropriate security clearances and channels are already in existence at FSDS.